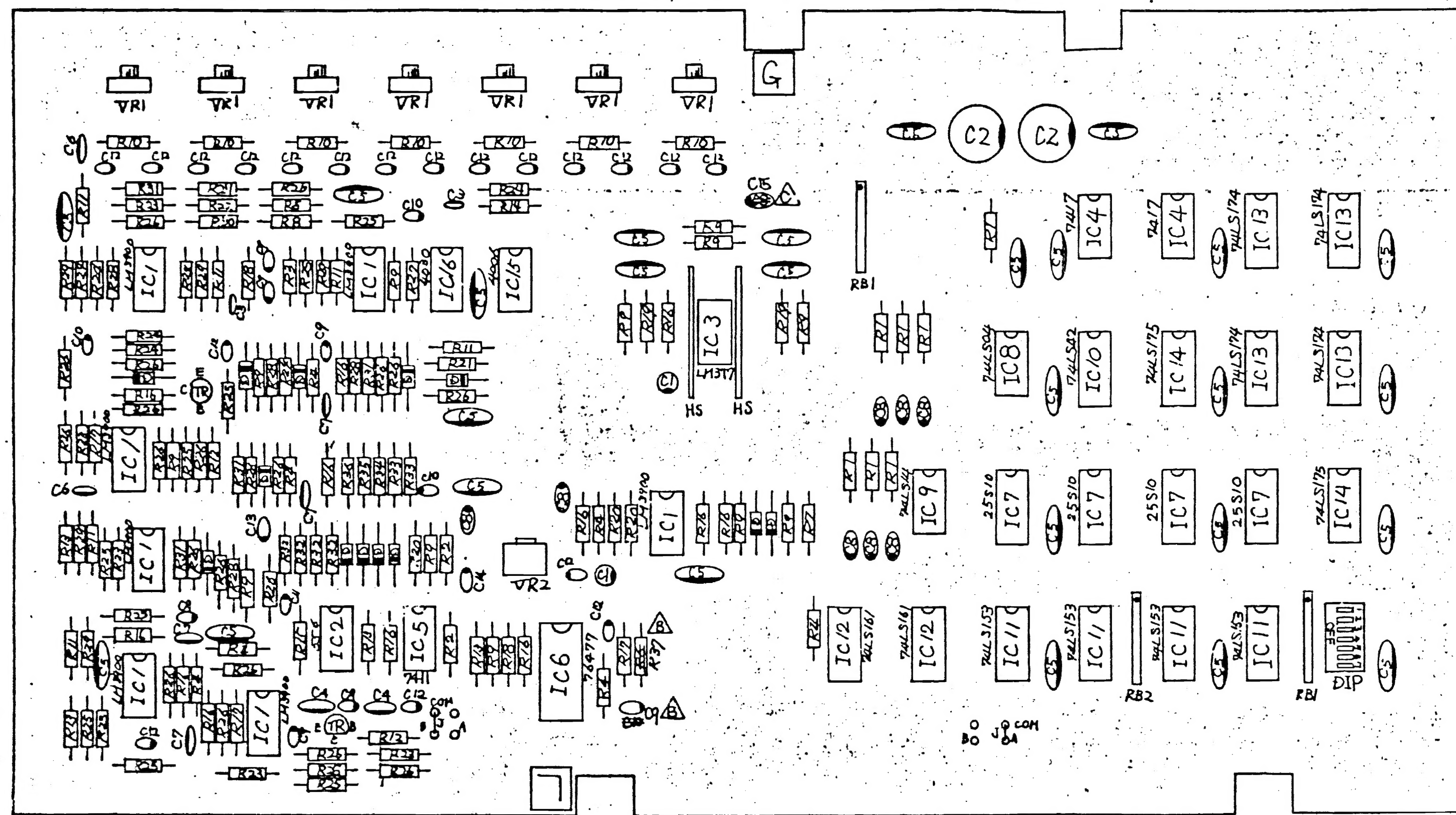


REVISIONS

LTR	DESCRIPTION	DATE	APPROVED
C	3rPK K-79-17	2.10.79	J. Sugahara
A	2rPK K79-12	8-10-78	J. Sugahara
B	6rPK K79-16	11-29-78	J. Sugahara

PARTS LIST

ITEM NO.	SYM	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	QTY REQD
52	R15	AAT 51810	RES., CARBON 75K OHM ¼w±5%	1
51	R14	51807	• 56K • •	1
50	R13	51805	• 47K • •	4
49	R12	51801	• 33K • •	2
48	R11	51799	• 27K • •	6
47	R10	51797	• 22K • •	7
46	R9	51789	• 10K • •	12
45	R8	51785	• 6.8k • •	1
44	R7	51781	• 4.7k • •	1
B 43	~~R6~~	~~51779~~	~~• 3.9K •~~ •	0 ~~1~~
42	R5	51772	• 2K • •	1
41	R4	51765	• 1K • •	7
40	R3	51759	• 560 • •	1
39	R2	51747	• 100 • •	2
38	R1	51737	RES., CARBON 68 OHM ¼w±5%	7
37	C14	41439	CAP., TANTALUM SSG35-4R7F	1
36	C13	41437	• SSG35-2R2F	1
35	C12	41436	• SSG35-1F	19
34	C11	41434	• SSG35-0R47F	1
B 33	C10	41432	• SSG35-0R22F	3 ~~4~~
B 32	C9	41431	" SSG35-0R1F	7 ~~8~~
C 31	C8	41430	CAP., TANTALUM SSG25-10F	8 ~~9~~
30	C7	41334	CAP., CERAMIC DT205 470PF 50V	4
29	C6	41330	CAP., CERAMIC DT205 330PF 50V	2
28	C5	41244	CAP., FILM TDY-1H-104	27
27	C4	41238	• TDY-1H-103	2
26	C3	41232	CAP., FILM TDY-1H-102	2
25	C2	41046	CAP., ELECTROLYTIC 35VB-470	2
24	C1	41018	CAP., ELECTROLYTIC 16VB-10	2
23	IC16	36031	C-MOS , CD 4030	1
22	IC15	36007	C-MOS , CD 4006A	1
21	IC14	33128	LS I.C , 74LS175	2
20	IC13	33127	• , 74LS174	4
19	IC12	33116	• , 74LS161	2
18	IC11	33108	• , 74LS153	4
17	IC10	33032	• , 74LS42	1
16	IC9	33015	• , 74LS14	1
15	IC8	33005	LS I.C , 74LS04	1
14	IC7	32128	TTL I.C , 25S10	4
13	IC6	32141	• , 76477	1
12	IC5	32121	• , 7411	1
11	IC4	32049	TTL I.C , 7417	2
10	IC3	31032	OP AMPLIFIER , LM377	1
9	IC2	31028	TIMER I.C NE556A	1
8	IC1	31011	OP AMPLIFIER , LM3900	7
7	D	12025	DIODE , 1S1588	13
6	TR	AAT 11020	TRANSISTOR , 2SC372-0	2
5	DIP	AA0 52560	DIP SWITCH , DSS-7	1
4	L	• 17644	CONNECTOR STICKER, L	1
3	G	AA0 17632	CONNECTOR STICKER, G	1
2	HS	ST0 30021	HEAT SINK	2
1		SV0 70001	S.V. GAME P.C. BOARD	1
B 80	R37	AAT 51787	RES., CARBON 8.2K OHM ¼w±5%	1 ~~0~~
A 79		AAT 51803	RES., CARBON 39K OHM ¼w±5%	2 ~~0~~
A 78		AAT 41232	CAP., FILM , TDY-1H-102	2 ~~0~~
77	RB2	AAT 55038	RESISTOR BLOCK 8elements 1.5K OHM	1
76	RB1	55036	RESISTOR BLOCK 8elements 1K OHM	2
75	VR2	53047	VARIABLE RESISTOR, B-50K RV16YP	1
74	VR1	53041	VARIABLE RESISTOR, B-50k	7
73	R36	51967	RES., CARBON 100K OHM ¼w±2%	1
72	R35	51966	• 82K • •	1
71	R34	51965	• 68K • •	1
70	R33	51960	• 20K • •	2
69	R32	51957	• 1K • ¼w±2%	4
68	R31	51853	• 4.7M • ¼w±5%	4
67	R30	51849	• 3.3M • •	1
66	R29	51847	• 2.7M • •	5
65	R28	51845	• 2.2M • •	4
64	R27	51841	• 1.5M • •	2
63	R26	51837	• 1M • •	22
62	R25	51833	• 680k • •	10
61	R24	51831	• 560k • •	7
60	R23	51829	• 470k • •	5
59	R22	51825	• 330k • •	1
58	R21	51823	• 270k • •	1
57	R20	51821	• 220k • •	3
56	R19	51820	• 200k • •	2
55	R18	51817	• 150k • •	2
54	R17	51815	• 120k • •	3
53	R16	AAT 51813	RES., CARBON 100K OHM ¼w±5%	12
82				
C 81	C15	AAT 41606	CAP., TANTALUM 35SD8 10μF	1 ~~2~~

NO.78 79 : SPARE PARTS

PRINTED FACE
NOTE-1 CAP., FILM & CERAMIC

CUTTING FACE
E C B
NOTE-5 TRANSISTOR 2SC-372-0

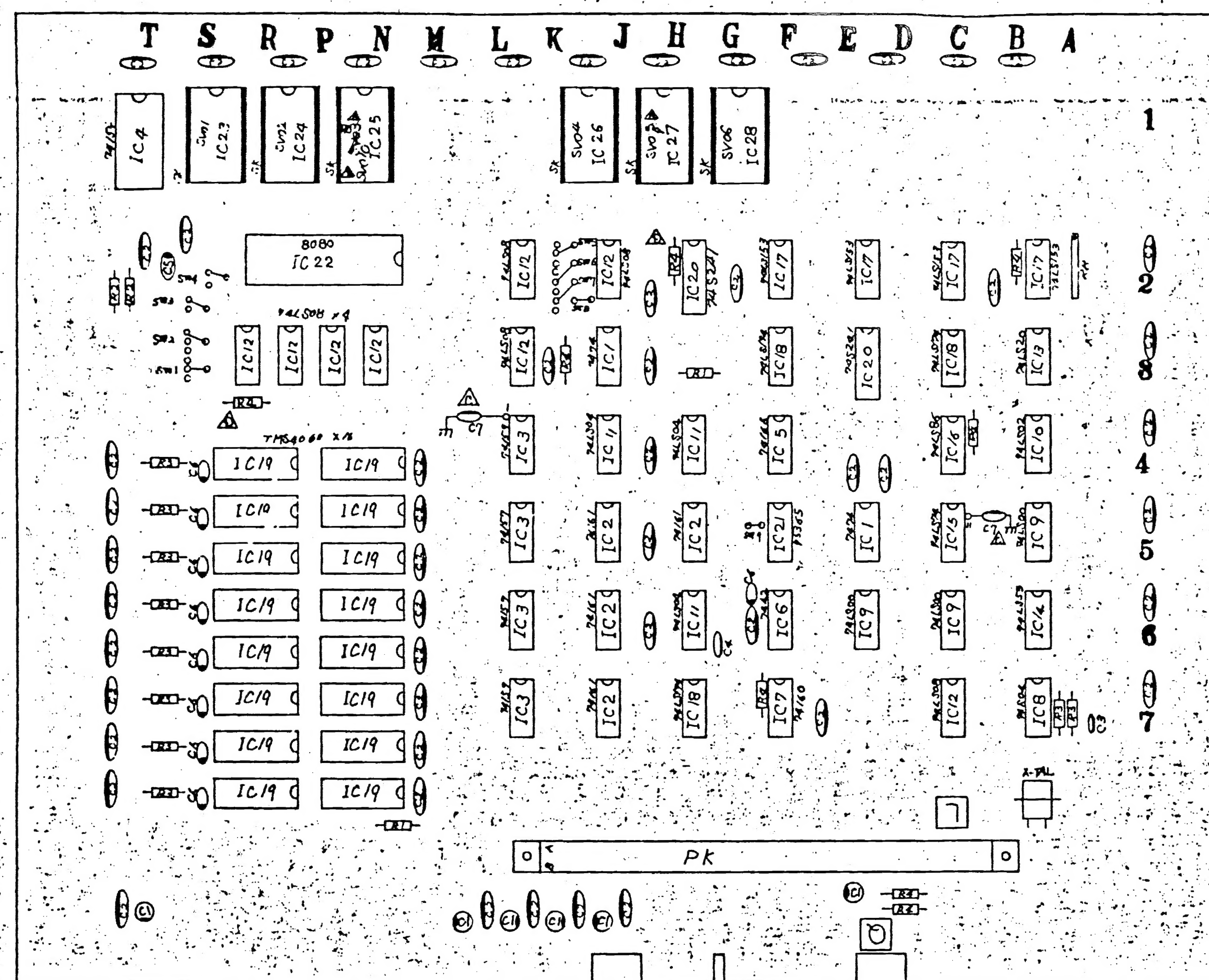
CATHODE MARK
NOTE-2 CAP., ELECTROLYTIC & TANTALUM

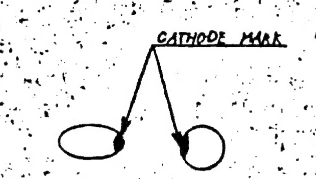
GOLD
NOTE-6 HOW TO MOUNT RESISTOR

CATHODE MARK
NOTE-3 DIODE 1S1588

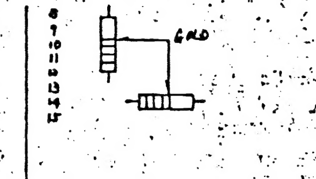
COMMON MARK
NOTE-4 RESISTOR BLOCK

THIRD ANGLE PROJECTION		
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETRES TOLERANCES: GENERAL ± HOLE DIA + − ANGLES ±	DRAWN 6.29.'78	TAITO CORPORATION
MATERIAL	DESIGN J. Sugahara	NAME S.V-GAME P.C BOARD Assy SPACE INVADER
FINISH	CHECK 6.29.'78	SIZE A2 / CODE IDENT NO. / DWG. NO. SVN00001
DO NOT SCALE DRAWING	APPROVED / APPROVED	SCALE / RELEASE DATE / SHEET





NOTE-1. CAP. TANTALUM & ELECTROLYTIC



NOTE-2 HOW TO MOUNT RESISTOR

PRINTED FACE

NOTE-3 CAP. FILM & CERAMIC

COMMON-MARK

NOTE-4. RESISTOR BLOCK

NOTE-5 MARK ※ IS PARTS FOR REPAIR

SEE NOTE-5 (items 48–52)

ITEM No.	SYM	PART OR IDENTIFYING No.	NOMENCLATURE OR DESCRIPTION	QTY REQD
76				
75				
74				
73				
72				
71				
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68				
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64				
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62				
61				
60				
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57				
56				
55				
54				
53				
52		AAT 51761	RES., CARBON 680 OHM 1/4W±5%	2
51		• 51757	• • 470 • •	1
50		• 51753	RES., CARBON 330 OHM 1/4W±5%	1
49		• 41334	CAP., CERAMIC 470PF	2
48		AAT 41306	CAP., CERAMIC 33PF	1
47	C7	AAT 41313	CAP., CERAMIC 100PF	2
46	R8	AAT 55041	RESISTOR BLOCK 470 OHM 8elements	1
45	R4	• 51765	RES., CARBON 1K OHM 1/4W±5%	8
44	R3	• 51753	• 330 • •	10
43	R2	• 51745	• 150 • •	2
42	R1	• 51729	RES., CARBON 33 OHM 1/4W±5%	2
41	C6	• 41436	CAP., TANTALUM 35G 25-1F	9
40	C5	• 41424	CAP., TANTALUM 16G 16-22F	1
39	C4	• 41330	CAP., CERAMIC 330PF	1
38	C3	• 41324	CAP., CERAMIC 180PF	1
37	C2	• 41244	CAP., FILM TDF-1H-104	54
36	C1	AAT 41032	CAP., ELECTROLYTIC 25PB-10	6
35	IC28	SV0 90006	P-ROM.. SV06	1
34	IC27	• 90004	• SV04	1
33	IC26	• 90004	• SV04	1
32	IC25	• 90003	• SV03	1
31	IC24	• 90002	• SV02	1
30	IC23	SV0 90001	P-ROM.. SV01	1
29	IC22	AAT 34001	C.P.U , TMS8080A	1
28	IC21	• 35002	MOS DRIVER, SN75365	1
27	IC20	• 35001	BUS DRIVER, SN74S241	2
26	IC19	• 32091	DYNAMIC RAM , TMS4060NL 4k	16
25	IC18	• 33127	TTL I.C , 74LS174	3
24	IC17	• 33108	• 74LS153	4
23	IC16	• 33062	• 74LS86	1
22	IC15	• 33051	• 74LS74	1
21	IC14	• 33043	• 74LS55	1
20	IC13	• 33019	• 74LS20	1
19	IC12	• 33009	• 74LS08	8
18	IC11	• 33005	• 74LS04	3
17	IC10	• 33003	• 74LS02	1
16	IC9	• 33001	• 74LS00	3
15	IC8	• 32096	• 74S04	1
14	IC7	• 32086	• 74160	1
13	IC6	• 32039	• 7442	1
12	IC5	• 32028	• 74166	1
11	IC4	• 32027	• 74154	1
10	IC3	• 32024	• 74157	4
9	IC2	• 32018	• 74161	4
8	IC1	AAT 32011	TTL I.C , 7474	2
7	X-TAL	AA069539	X-TAL , 19.968 MHz	1
6	PK	• 55798	PRINT CONNECTOR , KEL115C-572-222	1
5	SK	• 55787	I.C SOCKET , 24P	6
4	L	• 17644	CONNECTOR STICKER , L	1
3	Q	AA017656	CONNECTOR STICKER , Q	1
2		S-7070010	P.C BOARD STICKER	1
1		AA017742	C.P.U P.C BOARD	1

PARTS LIST

TAITO CORPORATION

DATE 6.24.78

DRAWN J. Engelbrecht

CHECKED 6.27.78

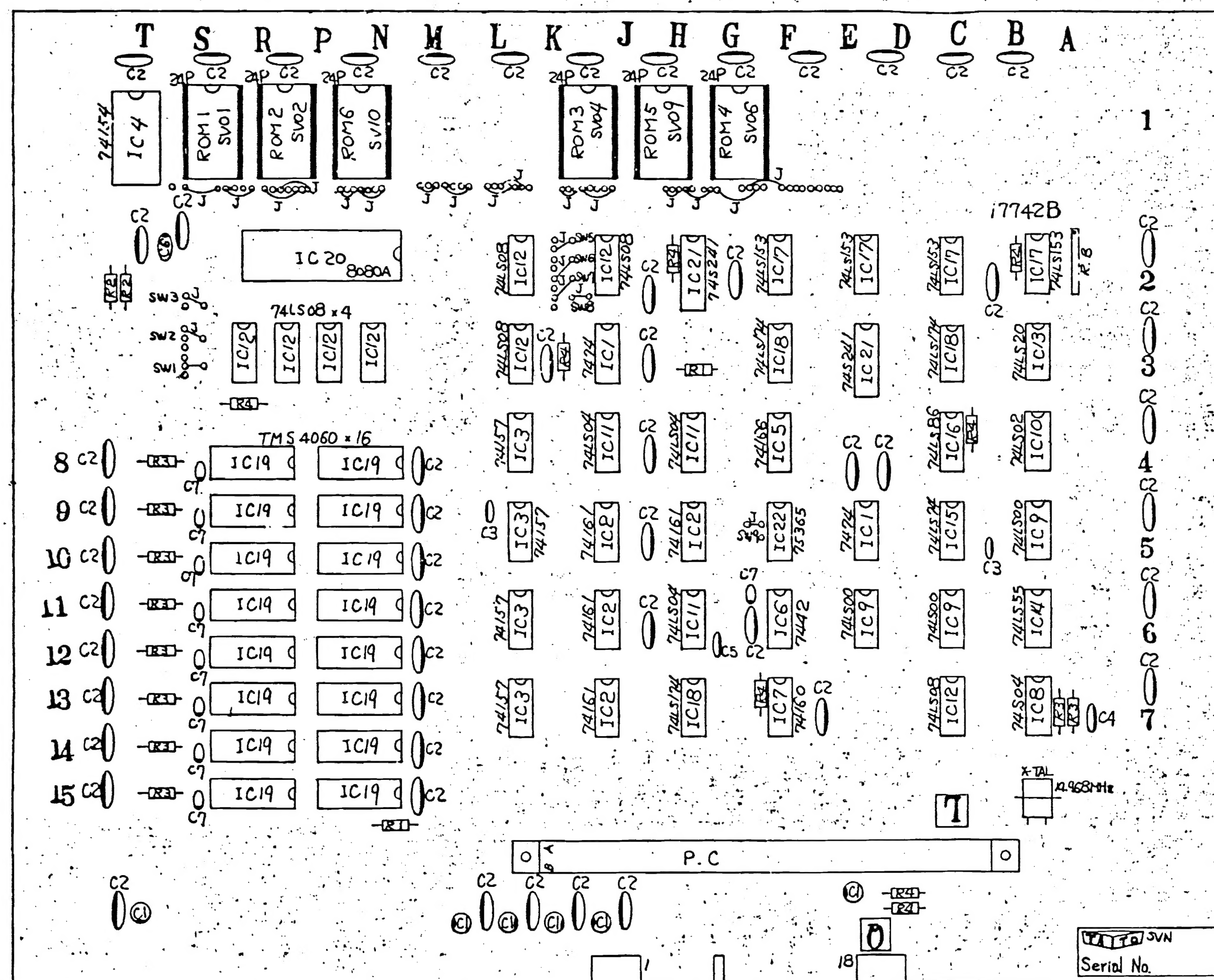
TITLE S-V-C.P.U.-P.C BOARD ASSY.

SIZE A1

DWG. NO. S7N00002

DO NOT SCALE DRAWINGS

SPACE INVADER



SEE NOTE-5

NOTE-5. MARK ✻ IS PARTS FOR REPAIR

CATHODE MARK

NOTE-1. CAP. TANTALUM & ELECTROLYTIC

GOLD

NOTE-2 How To Mount Resistor

PRINTED FACE

NOTE-3. CAP. FILM & CERAMIC

COMMON MARK

NOTE-4. RESISTOR BLOCK

FIND NO.	SYM	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	QTY REQ
76				
75				
74				
73				
72				
71				
70				
69				
68				
67				
66				
65				
64				
63				
62				
61				
60				
59				
58				
57				
56				
55				
54	J		TINNED COPPER WIRE	100
53				
52		AAT 51761	RES. CARBON, 680 OHM ¼W±5%	2
51		• 51757	• , 470 • •	1
50		• 51753	RES. CARBON, 330 OHM ¼W±5%	1
49		• 41334	CAP. CERAMIC, 470PF	2
48		• 41306	CAP. CERAMIC, 33PF	1
47	R.B	• 55041	RESISTOR BLOCK, 470 OHM 8elements	1
46	R4	• 51765	RES. CARBON, 1K OHM ¼W±2%	8
45	R3	• 51753	• , 330 • •	10
44	R2	• 51745	• , 150 • •	2
43	R1	• 51729	RES. CARBON, 33 OHM ¼W±2%	2
42	C7	• 41436	CAP. TANTALUM, SSG25-1F	9
41	C6	• 41424	CAP. TANTALUM, SSG16-22F	1
40	C5	• 41330	CAP. CERAMIC, 330PF	1
39	C4	• 41324	• , 180PF	1
38	C3	• 41318	CAP. CERAMIC, 100PF	2
37	C2	• 41244	CAP. FILM, TDY-1H-104	54
36	C1	AAT 41032	CAP. ELECTROLYTIC, 25VB-10	6
35	ROM6	SV0 90015	P-ROM, SV10	1
34	ROM5	• 90014	• , SV09	1
33	ROM4	• 90006	• , SV06	1
32	ROM3	• 90004	• , SV04	1
31	ROM2	• 90002	• , SV02	1
30	ROM1	SV0 90001	P-ROM, SV01	1
29	IC22	AAT 35002	MOS DRIVER, 75365	1
28	IC21	• 35001	BUS DRIVER, 74S241	2
27	IC20	• 34001	C.P.U, TMS8080A	1
26	IC19	• 32091	DYNAMIC RAM, TMS4060NL 4k	16
25	IC18	• 33127	LS I.C, 74LS174	3
24	IC17	• 33108	• , 74LS153	4
23	IC16	• 33062	• , 74LS86	1
22	IC15	• 33051	• , 74LS74	1
21	IC14	• 33043	• , 74LS55	1
20	IC13	• 33019	• , 74LS20	1
19	IC12	• 33009	• , 74LS08	8
18	IC11	• 33005	• , 74LS04	3
17	IC10	• 33003	• , 74LS02	1
16	IC9	• 33001	LS I.C, 74LS00	3
15	IC8	• 32096	TTL I.C, 74S04	1
14	IC7	• 32086	• , 74160	1
13	IC6	• 32039	• , 7442	1
12	IC5	• 32028	• , 74166	1
11	IC4	• 32027	• , 74154	1
10	IC3	• 32024	• , 74157	4
9	IC2	• 32018	• , 74161	4
8	IC1	AAT 32011	TTL I.C, 7474	2
7	X-TAL	AAO 69539	X-TAL, 19.968 MHz	1
6	P.C	• 55798	PRINT CONNECTOR, KEL1156-072-032	1
5	24P	• 55787	I.C SOCKET, 24P	6
4	Q	• 17656	CONNECTOR STICKER, Q	1
3	L	AAO 17644	CONNECTOR STICKER, L	1
2	B.S	SVO 70010	P.C-BOARD STICKER (A)	1
1		AAO 17742B	C.P.U-P.C BOARD	1

PARTS LIST

THIRD ANGLE PROJECTION
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS
TOLERANCES
GENERAL ±
HOLE DIA ± —
ANGLES ±
MATERIAL
FINISH
DO NOT SCALE DRAWING

DRAWN 4.16.79
DESIGN J. Sugahara
CHECK 4.17.79
APPROVED

TAITO CORPORATION

NAME S.V-C.P.U-F.C BOARD ASSY

SIZE A/ CODE IDENT NO. DWG NO. SVN/00002A
SCALE RELEASE DATE SHEET

SPACE INVADER

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

[illegible]			
LTR	DESCRIPTION	DATE	APPROVED
A	6APH K-79-15	1/29 79	J. Sugahara
B	3APR K-79-17	2.10.79	J. Sugahara

NOTE-1 CAP., FILM — PRINTED FACE

NOTE-2 CAP, TANTALUM & ELECTROLYTIC — CATHODE MARK

NOTE-3 DIODE — CATHODE MARK

NOTE-4. RESISTOR BLOCK — COMMON MARK

NOTE-5. TRANSISTOR (2SC-372-0) — PRINTED FACE — E C B

NOTE-6 HOW TO MOUNT RESISTOR — GOLD

NOTE-7 COVER JUMPER with INSURATED TUBE

NO. 78 NO. 79 SPARE PARTS

ITEM NO	SYM	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	QTY REQD
B 81	C15	AAT 41606	CAP., TANTALUM 35SDB 10μF	10
A 80	R37	AAT 51787	RES., CARBON 82K OHM ¼W±5%	10
79		AAT 51803	RES., CARBON 39K OHM ¼W±5%	2
78		41232	CAP., FILM TDY-1H-102	2
77	RB2	55038	RESISTOR BLOCK 1.5K OHM 8 elements	1
76	RB1	55036	RESISTOR BLOCK 1K OHM 8 elements	2
75	VR2	53047	VARIABLE RESISTOR B-50K RV16YP	1
74	VR1	53041	VARIABLE RESISTOR B-50k	7
73	R36	51967	RES., CARBON 100k OHM ¼W±2%	1
72	R35	51966	• 82k • •	1
71	R34	51965	• 68k • •	1
70	R33	51960	• 20K • •	2
69	R32	51957	• 1K • ¼W±2%	4
68	R31	51853	• 4.7M • ¼W±5%	4
67	R30	51849	• 3.3M • •	1
66	R29	51847	• 2.7M • •	5
65	R28	51845	• 2.2M • •	4
64	R27	51841	• 1.5M • •	2
63	R26	51837	• 1M • •	22
62	R25	51833	• 680k • •	10
61	R24	51831	• 560k • •	7
60	R23	51829	• 470k • •	5
59	R22	51825	• 330k • •	1
58	R21	51823	• 270k • •	1
57	R20	51821	• 220k • •	3
56	R19	51820	• 200k • •	2
55	R18	51817	• 150k • •	2
54	R17	51815	• 120K • •	3
53	R16	AAT 51813	RES., CARBON 100 K OHM ¼W±5%	12

ITEM NO.	SYM	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	QTY REQD
52	R15	AAT 51810	RES., CARBON 75K OHM ¼W±5%	1
51	R14	51807	• 56K • •	1
50	R13	51805	• 47K • •	4
49	R12	51801	• 33K • •	2
48	R11	51799	• 27K • •	6
47	R10	51797	• 22K • •	7
46	R9	51789	• 10k • •	12
45	R8	51785	• 6.8K • •	1
44	R7	51781	• 4.7k • •	1
A 43	~~R6~~	~~51779~~	~~• 3.9K • •~~	0
42	R5	51772	• 2K • •	1
41	R4	51765	• 1K • •	7
40	R3	51759	• 560 • •	1
39	R2	51741	• 100 • •	2
38	R1	51737	RES., CARBON 68 OHM ¼W±5%	7
37	C14	41439	CAP., TANTALUM SSG35-4R7F	1
36	C13	41437	• SSG35-2R2F	1
35	C12	41436	• SSG35-1F	19
34	C11	41434	• SSG35-0R47F	1
A 33	C10	41432	• SSG35-0R22F	3
A 32	C9	41431	• SSG35-0R1F	7
B 31	C8	41430	CAP., TANTALUM SSG25-10F	8
30	C7	41334	CAP., CERAMIC, DT205 470PF 50V	4
29	C6	41330	CAP., CERAMIC, DT205 330PF 50V	2
28	C5	41244	CAP., FILM TDY-1H-104	29
27	C4	41238	• TDY-1H-103	2
26	C3	41232	CAP., FILM TDY-1H-102	2
25	C2	41046	CAP., ELECTROLYTIC 35VB-470	2
24	C1	41018	CAP., ELECTROLYTIC 16VB-10	2
23	IC16	36031	C-MOS CD4030A	1
22	IC15	36007	C-MOS CD4006A	1
21	IC14	33128	LS I.C 74LS175	2
20	IC13	33127	• 74LS174	4
19	IC12	33116	• 74LS161	2
18	IC11	33108	• 74LS153	4
17	IC10	33032	• 74LS42	1
16	IC9	33015	• 74LS14	1
15	IC8	33005	LS I.C 74LS04	1
14	IC7	32141	TTL I.C. 76477	1
13	IC6	32121	• 7411	1
12	IC5	32049	• 7417	2
11	IC4	32026	TTL I.C 74151	8
10	IC3	31032	OP AMPLIFIER LM377	1
9	IC2	31028	TIMER I.C NE556A	1
8	IC1	31011	OP AMPLIFIER, LM3900	7
7	D	12025	DIODE. 1S1588	13
6	TR	AAT 11020	TRANSISTOR 2SC-372-0	2
5	DIP	AA0 52560	DIP SWITCH, DSS-7	1
4	L	• 17644	CONNECTOR STICKER, L	1
3	G	AA0 17632	CONNECTOR STICKER, G	1
2	HS	ST0 30021	HEAT SINK	2
1		SV0 70014	S.V-GAME P.C BOARD	1

PARTS LIST

THIRD ANGLE PROJECTION
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETRES
TOLERANCES
GENERAL ±
HOLE DIA + −
ANGLES ±
MATERIAL
FINISH
DO NOT SCALE DRAWING

[illegible]: 9.6.78
DESIGN: J. Sugahara
CHECK: 9.08.78
APPROVED: [illegible]
APPROVED

TAITO CORPORATION

NAME: SPACE INVADER — S.V-GAME P.C BOARD Assy

SIZE: A2 | CAGE IDENT NO. | DWG. NO. SVN 00003
SCALE | RELEASE DATE | SHEET

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED
A	K- 79-26 3 POINTS	4.16.79	[illegible]

T S R P N M L K J H G F E D C B A

1 2 3 4 5 6 7

IC22 8080A

TMS4060 x16

74LS08 x 4

PK

X-TAL

NOTE-1. CAP, TANTALUM & ELECTROLYTIC — CATHODE MARK

NOTE-2 HOW TO MOUNT RESISTOR — GOLD

NOTE-3 CAP, FILM & CERAMIC — PRINTED FACE

NOTE-4 RESISTOR BLOCK — COMMON MARK

NOTE-5. MARK * IS PARTS FOR REPAIR

[illegible]	SYM	[illegible]		NOMENCLATURE OR DESCRIPTION	[illegible]
76					
75					
74					
73					
72					
71					
70					
69					
68					
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52					
51		AAT	51761	RES., CARBON 680 OHM 1/4W ±5%	2
50		•	51757	• 470 • "	1
49		•	51753	RES., CARBON 330 OHM 1/4W ±5%	1
48		•	41334	CAP., CERAMIC 470PF	2
47		AAT	41306	CAP., CERAMIC 33PF	1
46					
45	RB	AAT	55041	RESISTOR BLOCK 470 OHM 8 elements	1
44	R4	•	51765	RES., CARBON 1K OHM 1/4W ±5%	8
43	R3	•	51753	• 330 • •	10
42	R2	•	51745	• 150 • •	2
41	R1	•	51729	RES., CARBON 33 OHM 1/4W ±5%	2
40	C7	•	41318	CAP., CERAMIC 100PF	2
39	C6	•	41436	CAP., TANTALUM SSG25-1F	9
38	C5	•	41424	CAP., TANTALUM SSG16-22F	1
37	C4	•	41330	CAP., CERAMIC 330PF	1
36	C3	•	41324	CAP., CERAMIC 180PF	1
35	C2	•	41244	CAP., FILM TDY-1H-104	54
34	C1	AAT	41032	CAP., ELECTROLYTIC 25VB-10	6
33	IC26	TVO	90008	MASK-ROM TV04	1
32	IC25	•	90007	• TV03	1
31	IC24	•	90006	" TV02	1
30	IC23	TVO	90005	MASK-ROM TV01	1
29	IC22	AAT	34001	C.P.U , TMS8080A	1
28	IC21		35002	MOS DRIVER, SN75365	1
27	IC20		35001	BUS DRIVER, SN74S241	2
26	IC19		32091	DYNAMIC RAM , TMS4060NL 4K	16
25	IC18		33127	LS I.C 74LS174	3
24	IC17		33108	• 74LS153	4
23	IC16		33062	• 74LS86	1
22	IC15		33051	• 74LS74	1
21	IC14		33043	• 74LS55	1
20	IC13		33019	• 74LS20	1
19	IC12		33009	• 74LS08	8
18	IC11		33005	• 74LS04	3
17	IC10		33003	• 74LS02	1
16	IC9		33001	LS I.C 74LS00	3
15	IC8		32096	TTL I.C 74S04	1
14	IC7		32086	• 74160	1
13	IC6		32039	• 7442	1
12	IC5		32028	• 74166	1
11	IC4		32027	• 74154	1
10	IC3		32024	• 74157	4
9	IC2		32019	• 74161	4
8	IC1	AAT	32011	TTL I.C , 7474	2
7	X-TAL	AAO	69537	X-TAL , 19.968MHz	1
6	PK	•	55798	PRINT CONNECTOR, KEL115F072-032	1
5	I.S	•	55787	I.C SOCKET , 24P	4
4	L	•	17644	CONNECTOR STICKER , L	1
3	Q	AAO	17556	CONNECTOR STICKER , Q	1
2		STO	70022	P.C BOARD STICKER	1
1		AAO	17742A	C.P.U P.C BOARD	1

PARTS LIST

10.23.78

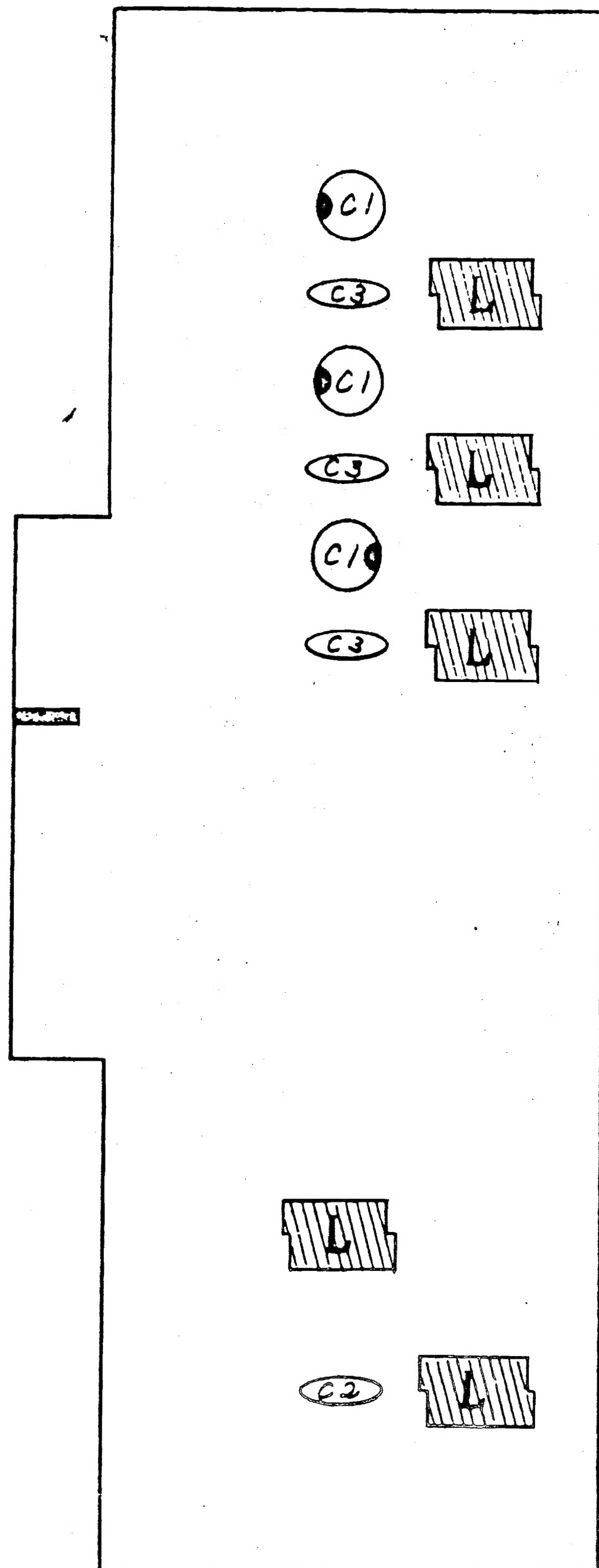
T. Sugahara

10.23.78

TAITO CORPORATION

SPACE INVADER
S.V.-C.P.U PC BOARD Assy

A1 SVN00005



REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED

(−) MARK

25VB100

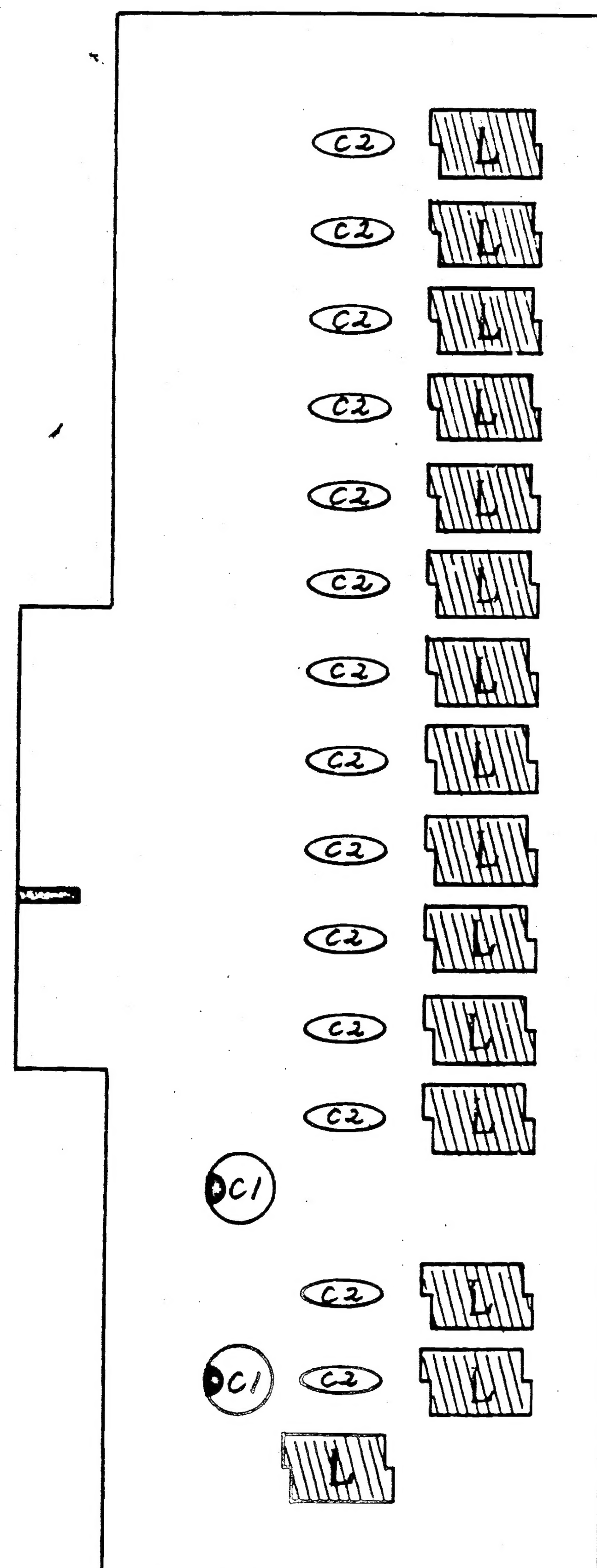
NOTE) CAP. ELECTROLYTIC

ITEM NO.	SYM	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	QTY REQD
27				
26				
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7				
6				
5	L	AAT 61018	COIL	5
4	C3	〃 41411	CAP. CERAMIC 0.1MF 50V	3
3	C2	〃 41326	CAP. CERAMIC 220PF 50V	1
2	C1	AAT 41036	CAP. ELECTROLYTIC 25VB100	3
1		SV070024	FILTER P.C BOARD (A)	1

PARTS LIST

THIRD ANGLE PROJECTION UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETRES TOLERANCES GENERAL ± HOLE DIA + − ANGLES ±	DRAWN 3.30.79 DESIGN 3.30.79 CHECK 4.6.79 (河)	TAITO CORPORATION
MATERIAL	APPROVED	NAME SPACE INVADER S·V − FILTER P.C. BOARD ASSY (A)
FINISH		SIZE A3 | CODE IDENT NO. | DWG. NO. SVN 00007
DO NOT SCALE DRAWING	APPROVED	SCALE | RELEASE DATE | SHEET

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED



(-) MARK

25VB100

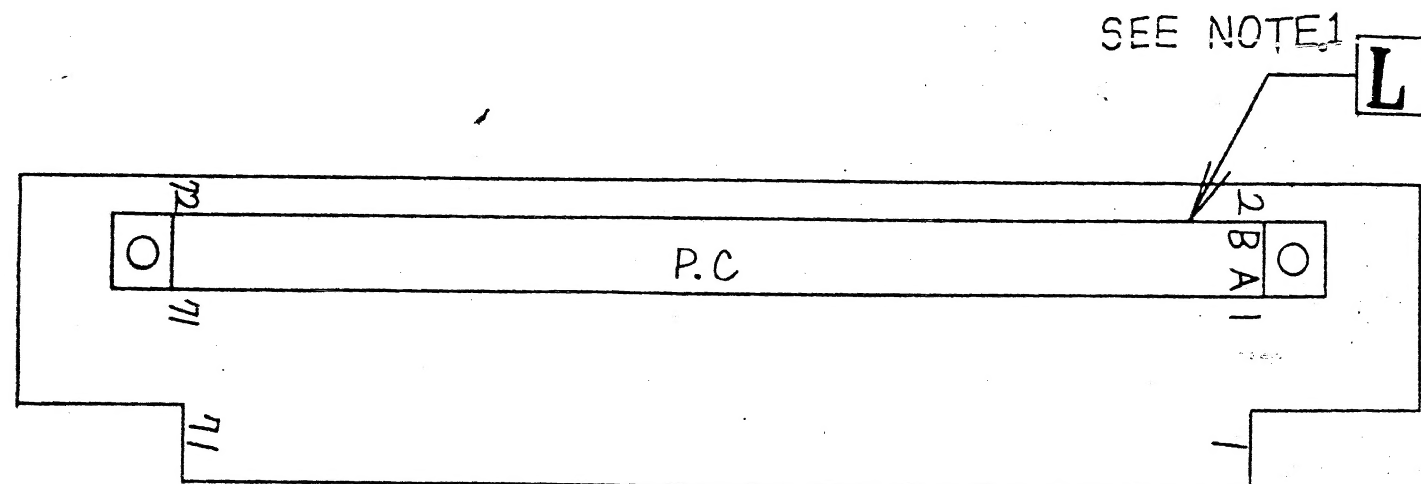
NOTE) CAP. ELECTROLYTIC

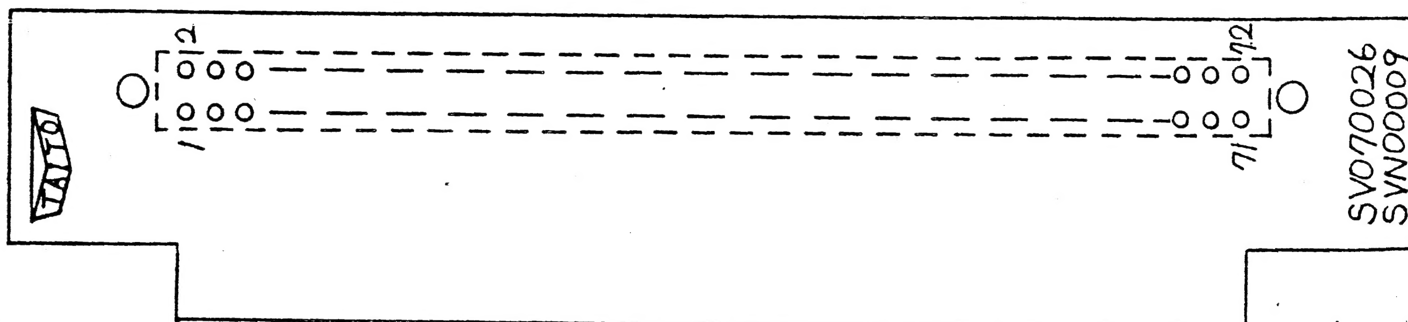
ITEM NO.	SYM	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	QTY REQD
27				
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6				
5				
4	L	AAT 61018	COIL	14
3	C2	〃 41411	CAP. CERAMIC 0.1MF 50V	13
2	C1	AAT 41036	CAP. ELECTROLYTIC 25VB100	2
1		SV070025	FILTER P.C. BOARD (B)	1

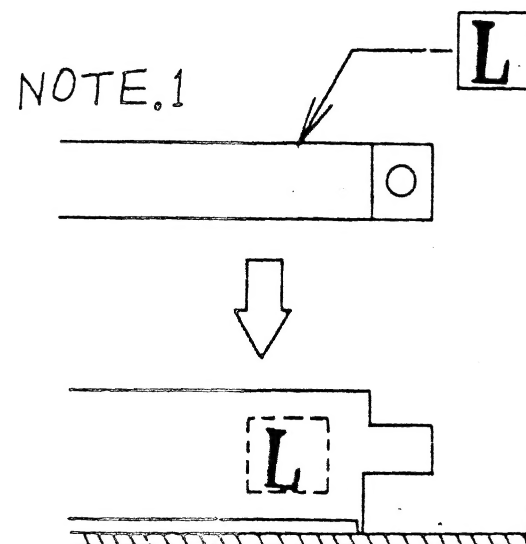
PARTS LIST

THIRD ANGLE PROJECTION UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETRES TOLERANCES GENERAL ± HOLE DIA + − ANGLES ±	DRAWN 3.30.7 DESIGN 3.30.79 CHECK 4.3.78	TAITO CORPORATION
MATERIAL	APPROVED	NAME SPACE INVADER S.V- FILTER P.C BOARD ASSY (B)
FINISH	APPROVED	SIZE A3 / CODE IDENT NO. / DWG. NO. SVN00008
DO NOT SCALE DRAWING		SCALE / RELEASE DATE / SHEET

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED







ITEM NO.	SYM	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	QTY REQD
27				
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6				
5				
4				
3	P.C	AA0 55798	PRINT CONNECTOR, KEL1156-072-032	1
2	L	AA0 17644	CONNECTOR STICKER, L	1
1		SV0 70026	FILTER P.C. BOARD	1

PARTS LIST

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETRES

TOLERANCES
GENERAL ±
HOLE DIA + −
ANGLES ±

MATERIAL

FINISH

DRAWN 6.12.78
DESIGN Shimada
CHECK 6.13.78
APPROVED
APPROVED

TAITO CORPORATION

NAME SPACE INVADER FILTER P.C. BOARD ASSY.(C)

SIZE A3 | CODE IDENT NO. | DWG. NO. SVN00009

SCALE | RELEASE DATE | SHEET

Item No.	SYM	Part No.	Nomenclature or Description	Qty
76				
75				
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45				
44	J		TINNED COPPER WIRE	100
43				
42	R.B	AAT 55036	RESISTOR BLOCK, 1K ohm 8 elements	1
41	C6	" 41334	CAP. CERAMIC, DT205 470PF 50V	2
40	R4	" 51765	RES. CARBON, 1K ohm 1/4W	4
39	R3	" 51753	" " 330 " "	10
38	R2	" 51745	" " 150 " "	2
37	R1	" 51729	RES. CARBON, 33 ohm 1/4W	2
36	C5	" 41436	CAP. TANTALUM, SSG 25-1F	6
35	C4	" 41424	CAP. TANTALUM, SSG16-22F	2
34	C3	" 41324	CAP. CERAMIC, DT205 180PF	1
33	C2	" 41244	CAP. FILM, TGY-1H104	46
32	C1	AAT 41032	CAP. ELECTROLYTIC, 25VB-10	4
31	ROM4	TVO 90008	MASK ROM, TV04	1
30	ROM3	" 90007	" , TV03	1
29	ROM2	" 90006	" , TV02	1
28	ROM1	TVO 90005	MASK ROM, TV01	1
27	CPU	AAT 34001	C P U, TMS 8080A	1
26	RAM	"	DYNAMIC RAM, 2107(4060)	16
25	BUS	"	BUS DRIVER, 8216	2
24	MOS	"	MOS DRIVER, 3245	1
23	IC16	"	TTL I.C, 9316	4
22	IC15	"	" I.C, 9310	1
21	IC14	" 32029	" I.C, 74174	3
20	IC13	" 32017	TTL I.C, 74153	4
19	IC12	" 33043	L S I.C, 74LS55	1
18	IC11	" 33035	" , 74LS42	2
17	IC10	" 33009	" , 74LS08	4
16	IC9	" 33005	" , 74LS04	2
15	IC8	" 33003	" , 74LS02	1
14	IC7	" 33001	L S I.C, 74LS00	2
13	IC6	" 32096	TTL I.C, 74S04	1
12	IC5	" 32028	" , 74166	1
11	IC4	" 32024	" , 74157	4
10	IC3	" 32013	" , 7486	1
9	IC2	" 32011	" , 7474	3
8	IC1	AAT 32005	TTL I.C, 7420	1
7	X-TAL	AAO 69539	X-TAL, 19.968 MHz	1
6	P.C	" 55796	PRINT CONNECTOR, KEL 1158-072-032	1
5	24P	" 55787	I.C SOCKET, 24P	8
4	Q	" 17656	CONNECTOR STICKER, Q	1
3	L	AAO 17644	CONNECTOR STICKER, L	1
2	B.S	SVO	P.C BOARD STICKER	1
1			MOTHER P.C BOARD(C.P.U)	1

PARTS LIST

TAITO CORPORATION

S.V-C.PU-P.C BOARD ASSY

MIDWAY

SVN00010

A1

4-23-79

SPACE INVADER

NOTE.1 CAP. TANTALUM — CATHOD MARK

NOTE.2 CAP. ELECTROLYTIC — CATHOD MARK

NOTE.3 RESISTOR BLOCK — COMMON MARK

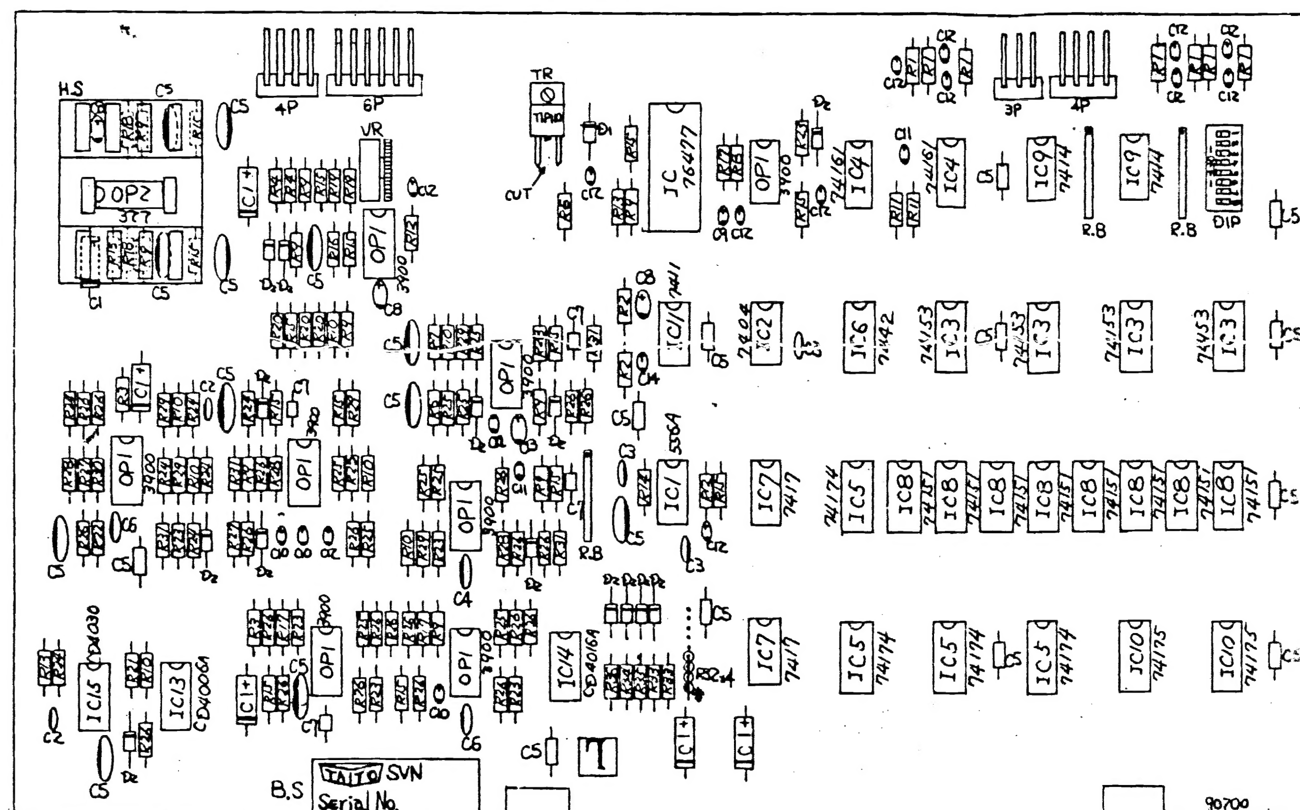
B.S TAITO SVN Serial No

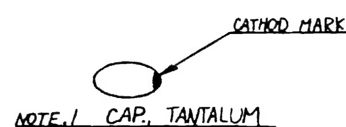
C.P.U TMS 8080A

ROM1 TV01 · ROM2 TV02 · ROM3 TV03 · ROM4 TV04

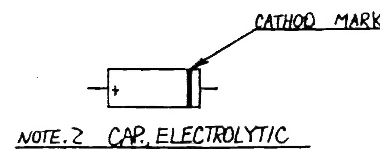
RAM 2107×16

P.C

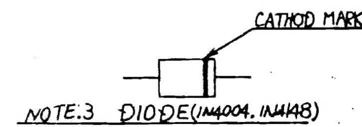




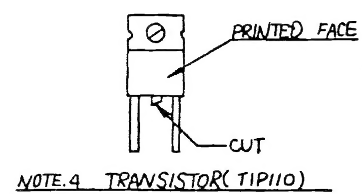
NOTE.1 CAP. TANTALUM



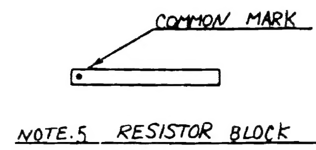
NOTE.2 CAP. ELECTROLYTIC



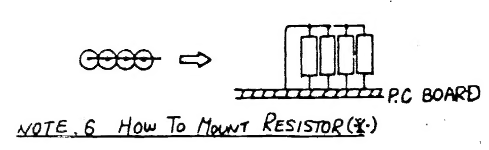
NOTE.3 DIODE(IN4004. IN4148)



NOTE.4 TRANSISTOR(TIP110)



NOTE.5 RESISTOR BLOCK



NOTE.6 How To Mount Resistor(⅛·)

REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED

ITEM NO.	SYM	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	QTY REQD
81				
80	RB1	AAT 55036	RESISTOR BLOCK, 1K OHM 8 elements	3
79	VR	53047	VARIABLE RESISTOR B-50K RH0TP	1
78	R36	51967	RES. CARBON ,100K OHM ¼w±2%	1
77	R35	51966	,82K •	1
76	R34	51965	,83K •	1
75	R33	51960	,20K •	2
74	R32	51957	,1K ¼w±2%	4
73	R31	51853	,4.7M ¼w±5%	4
72	R30	51849	,3.3M	1
71	R29	51847	,2.7M	5
70	R28	51845	,2.2M	4
69	R27	51841	,1.5M	2
68	R26	51837	,1M	22
67	R25	51833	,680K	10
66	R24	51831	,560K	7
65	R23	51829	,470K	6
64	R22	51825	,330K	1
63	R21	51823	,270K	1
62	R20	51817	,150K	3
61	R19	51821	,220K	2
60	R18	51820	,200K	2
59	R17	51815	,120K	3
58	R16	51814	,110K	1
57	R15	51813	,100K	15
56	R14	51810	,75K	1
55	R13	51807	,56K	2
54	R12	51805	,47K	2
53	R11	51801	,33K	2
52	R10	51799	,27K	7
51	R9	51789	,10K	10
50	R8	51787	,8.2K	1
49	R7	51785	,6.8K	1
48	R6	51783	,5.6K	1
47	R5	51773	,2.2K	1
46	R4	51772	,2.0K	2
45	R3	51748	,200	2
44	R2	51741	,100	2
43	R1	51737	RES., CARBON ,68 OHM ¼w±5%	7
42	C14	41439	CAP. TANTALUM , SSG 35-4R7F	1
41	C13	41437	• , SSG 35-2R2F	1
40	C12	41436	• , SSG 35-1F	14
39	C11	41434	• , SSG 35-0R47F	2
38	C10	41432	• , SSG 35-0R22F	3
37	C9	41431	• , SSG 35-0R1F	1
36	C8	41430	CAP., TANTALUM , SSG25-10F	3
35	C7	41334	CAP. CERAMIC ,DT205 470PF 50V	4
34	C6	41330	CAP. CERAMIC ,DT205 330PF 50V	2
33	C5	41244	CAP. FILM , TDY-1H-104	24
32	C4	41242	• , TDY-1H-473	1
31	C3	41238	• , TDY-1H-103	3
30	C2	41232	CAP., FILM , TDY-1H-102	2
29	C1	41107	CAP., ELECTROLYTIC , 25T10	6
28	IC15	36031	C-MOS , CD4030	1
27	IC14	36017	• , CD4016A	1
26	IC13	36007	C-MOS , CD4006A	1
25	IC12	32141	TTL I.C , 76477	1
24	IC11	32121	• , 7411	1
23	IC10	32078	• , 74175	2
22	IC9	32054	• , 7414	2
21	IC8	32026	• , 74151	8
20	IC7	32049	• , 7417	2
19	IC6	32039	• , 7442	1
18	IC5	32029	• , 74174	4
17	IC4	32018	• , 74161	2
16	IC3	32017	• , 74153	4
15	IC2	32003	TTL I.C , 7404	1
14	OP2	31032	OP AMPLIFIER, LM377	1
13	IC1	31028	TIMER I.C , NE556A	1
12	OP1	31011	OP AMPLIFIER , LM3900	8
11	D2	12025	DIODE , IN4148 (1S1588)	14
10	D1	AAT 12002	DIOD , IN4004 (V03C)	1
9	TR		TRANSISTOR , TIP110	1
8	6P		CONNECTOR ,6P	1
7	4P		• ,4P	2
6	3P		CONNECTOR . 3P	1
5	DIP	AAO 52566	DIP SWITCH . DSS-8	1
4	L	AAO 17644	CONNECTOR STICKER .L	1
3	H.S		HEAT SINK	1
2	B.S	SVO	S.V-P.C BOARD STICKER	1
1		90700	S.V-GAME P.C BOARD (MIDWAY)	1

PARTS LIST

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS TOLERANCES

DATE 4.23.79

DRAWN I. Sugahara 4-23-79

TAITO CORPORATION

NAME S.V-GAME PC BOARD ASSY. MIDWAY CONVERSION

SIZE A1 DWG NO. SVN00011

SPACE INVADER

DO NOT SCALE DRAWING

2716 (WITHOUT TEXAS)

T S R P N M L K J H G F E D C B A

IC4 74154 — ROM 1 CV3 — ROM 2 CV4 — ROM 3 CV5 — ROM 4 CV6 — 24P

IC20 TMS 8080

17742B

74LS08×4

TMS4060×16

SW1 SW2 SW3 SW8

P.C

X-TAL 19.968 MHz

B.S SVN00013 Serial No.

PRESS THE SERIAL NO

NOTE-5 . MARK ※ IS PARTS FOR REPAIR

CATHODE MARK

(TANTALUM) (ELECTROLYTIC)

NOTE-1. CAP. TANTALUM & ELECTROLYTIC

GOLD

NOTE-2 HOW TO MOUNT RESISTOR

PRINTED FACE

NOTE-3 CAP. FILM & CERAMIC

COMMON MARK

NOTE-4 RESISTOR BLOCK

REVISIONS

LTR	DESCRIPTION	DATE	APPROVED

ITEM NO.	SYM	PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION	QTY REQD
76					
75					
74					
73					
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53					
52		AAT	51761	RES., CARBON, 680 OHM 1/4W±5%	2
51		〃	51757	〃 , 470 〃 〃	1
50		〃	51763	RES., CARBON, 330 OHM 1/4W±5%	1
49		〃	41334	CAP. CERAMIC, 470PF	2
48		AAT	41306	CAP. CERAMIC, 33PF	1
47					
46	J			TINNED COPPER WIRE	100
45	RB	AAT	55041	RESISTOR BLOCK, 470 OHM 8 element	1
44	R4	〃	51765	RES. CARBON, 1K OHM 1/4W±5%	8
43	R3	〃	51753	〃 , 330 OHM 1/4W±5%	10
42	R2	〃	51745	〃 , 150 OHM 1/4W±5%	2
41	R1	〃	51729	RES., CARBON, 33 OHM 1/4W±5%	2
40	C7	〃	41436	CAP., TANTALUM, SSG25-1F	9
39	C6	〃	41424	〃 TANTALUM, SSG16-22F	1
38	C5	〃	41330	〃 CERAMIC, 330PF	1
37	C4	〃	41324	〃 〃 , 180PF	1
36	C3	〃	41318	〃 CERAMIC, 100PF	2
35	C2	〃	41244	〃 FILM, TDY-1H-104	54
34	C1	AAT	41032	CAP., ELECTROLYTIC 25VB-10	6
33	ROM4	CVO	90015	P-ROM, CV06	1
32	ROM3	〃	90014	〃 , CV05	1
31	ROM2	〃	90013	〃 , CV04	1
30	ROM1	CVO	90012	P-ROM, CV03	1
29	IC22	AAT	35002	MOS DRIVER, 75365	1
28	IC21	〃	35001	BUS DRIVER, 74S241	2
27	IC20	〃	34001	C.P.U, TMS8080A	1
26	IC19	〃	32091	DYNAMIC RAM, TMS4060NL 4K	16
25	IC18	〃	33127	LS I.C, 74LS174	3
24	IC17	〃	33108	〃 , 74LS153	4
23	IC16	〃	33062	〃 , 74LS86	1
22	IC15	〃	33051	〃 , 74LS74	1
21	IC14	〃	33049	〃 , 74LS55	1
20	IC13	〃	33019	〃 , 74LS20	1
19	IC12	〃	33009	〃 , 74LS08	8
18	IC11	〃	33005	〃 , 74LS04	3
17	IC10	〃	33003	〃 , 74LS02	1
16	IC9	〃	33001	LS I.C, 74LS00	3
15	IC8	〃	32096	TTL I.C, 74S04	1
14	IC7	〃	32086	〃 , 74160	1
13	IC6	〃	32039	〃 , 7442	1
12	IC5	〃	32028	〃 , 74166	1
11	IC4	〃	32027	〃 , 74154	1
10	IC3	〃	32024	〃 , 74157	4
9	IC2	〃	32018	〃 , 74161	4
8	IC1	AAT	32011	TTL I.C, 7474	2
7	X-TAL	AAO	69534	X-TAL, 19.968 MHz	1
6	P.C	〃	55798	PRINT CONNECTOR KEL 1156-092-002	1
5	24P	〃	55787	I.C SOCKET 24P	4
4	Q	〃	17656	CONNECTOR STICKER, Q	1
3	L	AAO	17644	CONNECTOR STICKER, L	1
2	B.S	SVO	70030	PC-BOARD STICKER	1
1		AAO	17742B	C.P.U-P.C BOARD	1

※ SEE NOTE-5 (items 48–52)

PARTS LIST

THIRD ANGLE PROJECTION

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETERS

DO NOT SCALE DRAWING

TAITO CORPORATION

SV C.P.U BOARD ASSY

SPACE INVADER

A1 SVN00013

LTR	DESCRIPTION	DATE	APPROVED
1	24PH	K79-16	11.29.78

K J H G F E D C B A

74174 4 · 74174 1 · 74153 18 · 74153 15 · 74153 11 · 74153 7 · 74174 5 · 74174 2 · 74175 9 · 7442 13 · 74175 3 · 25510 17 · 25510 14 · 25510 10 · 25510 6 · 74161 21 · 74161 20 · SN 76477 24 · 556 29 · 4006 25

D0 D1 D2 D3 D4 D5 PORT 3 · PORT 5 · PORT 6 · PORT 4 · PORT 2 · RESET · POWER ON RESET

SX0 SX1 SX2 SX3 SX4 SX5 SX6 SX7 SX8 SX9 SX10

LEFT1 · TILT · FIRE1 · 2P SW · 1P SW · COIN

60Hz 120Hz 240Hz 480Hz 960Hz · 480Hz · 960Hz · COM

AMP0 AMP1 AMP2 AMP3 AMP4 AMP5 AMP6

EXTENDED PLAY

UFO

AMPLIFIER

NOISE

TRIGGER SOUND

TARGET HIT

UFO HIT

FLASH

STEP

THIRD ANGLE PROJECTION	DRAWN 6.26.78	TAITO CORPORATION
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN MILLIMETRES TOLERANCES	DESIGN J. Sugelara	NAME S-V-GAME P.C. BOARD SCHEMATIC DIAGRAM
MATERIAL	CHECK 6-27-78	SIZE A1 · DWG. NO. SVR60001
FINISH -	APPROVED	SCALE · SHEET
DO NOT SCALE DRAWING	APPROVED	

DS BUS LINE

74LS151×8

AMPLIFIER

TORIGGER SOUND

UFO HIT

TARGET HIT

FLASH

STEP

EXTEND PLAY

UFO

MOUNTING FACE

RESET

POWER ON RESET

16	60Hz
T	120Hz
V	240Hz
X	480Hz
Z	960Hz

DO NOT SCALE DRAWING

9. 11 78

T. Sugahara 9. 19

TAITO CORPORATION

S.V-GAME PC BOARD SCHEMATIC DIAGRAM

A1

STR00002

SPACE INVADER

SPACE INVADER

TAITO CORPORATION

S.V-GAME P.C BOARD

SCHEMATIC DIAGRAM (MIDWAY)

THIRD ANGLE PROJECTION	4.11.79
UNLESS OTHERWISE SPECIFIED	J. Sugahara 4.23.79
SIZE	A1
DWG. NO.	SVR00003
DO NOT SCALE DRAWING	

REVISIONS — LTR | DESCRIPTION | DATE | APPROVED

MOVE RIGHT (B-2)
MOVE LEFT (B-3)
FIRE (B-6)
1P-SW (B-7)
(B-1)
2P-SW (B-8)
COIN PULSE (A-3)
METER (A-5)
C TAP (A-4)

74153 (3D, 3C, 3B, 3A)
74174 (5D, 5C, 4F, 5E)
74175 (5B, 5A)
7442 (3E)
74161 (2E, 2D)
74LS151 x8 (4A, 4AB, 4B, 4BC, 4C, 4D, 4DE, 4E)

PORT2, PORT4, PORT6, PORT5, PORT3

DS-BUS LINE

RESET

R.ON RESET
RESET
60Hz
480Hz

TORIGGER SOUND
FLASH
UFO HIT
EXTEND PLAY
STEP
TARGET HIT
UFO
P.ON RESET (A-6)
2H 76477
5N 4006
LM3900
LM377

S.P (A-9)
V-AUDIO (A-11)
AUDIO RET (A-10)
S.P (A-8)
(A-1)(A-2)
(A-7): KEY

+12V
+5V
12V. DEC

A B